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(BACTERIOPHAGE,
of Micrococcus pyogenes, lysogenic strains)

Salai, .

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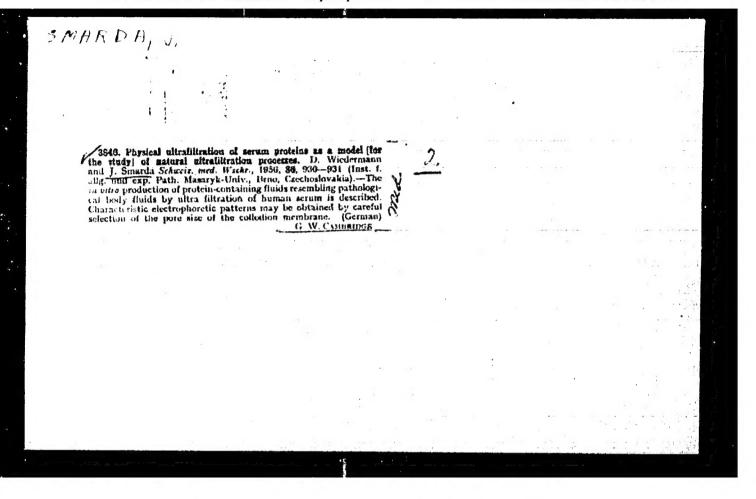
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1290. INDUCTION OF BACTERIOPHAGES BY ULTRAVIOLET LIGHT IN A NATURALLY POLYLYSOGENIC STRAIN OF STAPHYLOCOCCUS AUREUS-Smarda J. Inst. of Gen. Biol., Med. Fac., Univ. of Brno - FOLIA BIOL. (Praha) 1957, 3/3 (160-169) Graphs 3

An attempt was made to resolve the problem of whether every cell of a polylysogenic strain produced both phages when lysed after induction by UV light, or whether certain cells always produce only one type. The work was carried out with a naturally polylysogenic strain LS 2 of Staphylococcus aureus. The experiments were arranged so that the bouillon cultures of LS 2 were irradiated by UV light in a quartz glass container; after certain exposures patterns were taken from the cultures, incubated and filtered through collodion membranes. The filtrates, after dilution, were tested on 2 indicator strains, CS 4 and CS 13, of M. pyogenes aureus, each of these strains detecting one of the phages produced by LS 2: F 4 and F 13. The quantitative relation of these 2 phages, the production of which could be greatly induced by UV, after increasing doses of irradiation was followed. In every normal culture of LS 2, the proportion of the titres of F 13 and F 4 was very nearly in the ratio of 3: 1. In the course of induction in visible light, the number of plaque-forming particles of F 13 increased far more that that of F 4. The titre of F 13 increased by as much as 400 times, while that of F 4 at most 12 times with the same dose. The proportion of the titre of F 13 to that of F 4 then reached the ratio of 367:1, in one specimen. When irradiating the cultures of LS 2 in the dark, completely different results were obtained, which were due to the absence of photoreactivation effect of visible light: the titre of F 13 increased at most 6 times only while that of F 4 as much as 34 times. It is concluded that one phage was probably liberated by cells which did not produce the other phage simultaneously, although potentially every cell could produce both in a constant ratio.

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Percentility of the cavillary wall to proteins, Cesk. fysiol. 6 no.2: 301-207 1957. 1. Untay pro vacobecnou a experimentalni pathologii lebarake fakulty university v Brne Ustay pro obecnou biologii lekarake fakulty university v Brne. (CAPILLARES, physiology, permeability to proteins (Cz)) (PROTZINS capillary permeability (Cz))

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1 MM. J. A remarkable find of the Hickons, <u>Fulrencia folcons</u> and <u>Equatoria</u> <u>lanticers</u> is the Gris valley of Glovakia. p. 385.

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Incidence and manifestations of colicinogeny in strains of Escherichia coli. J.hyg.epidem., Praha 4 no.2:151-165 '60. 1. Department of General Biology, Medical Faculty, Masaryk University, Brno. (ESCHERICHIA COLI)

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1. Department of Biology, Medical Faculty of the J.E. Purkyne University, Brno.
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l. Geobotanicka laborator Ceskoslovenske akademie ved, potocka $\mathbf v$ Brne.

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1. Department of Biology, Medical Faculty, Purkyne University, Brno.

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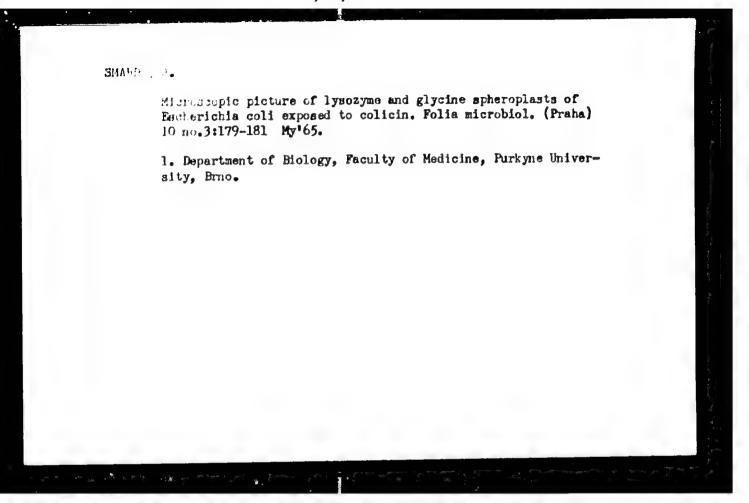
SKYBOVA, Marta; SMARDA, Jan

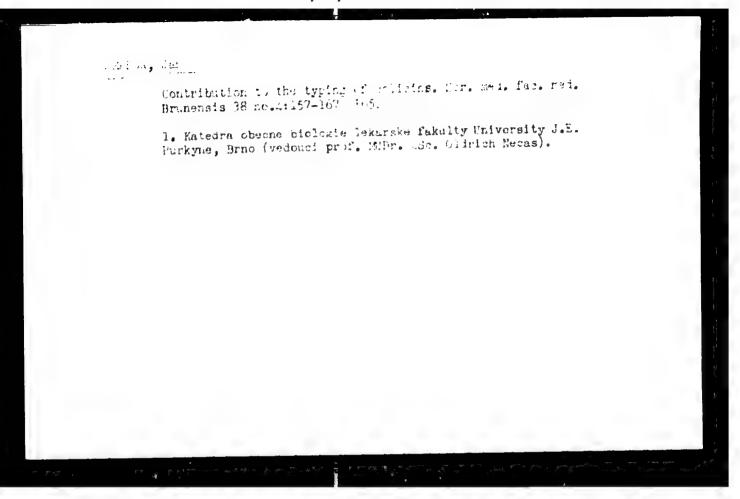
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1-Department of Biology, Faculty of Medicine, Purkyne University, Brno. (BACTERIOPHAGE) (ANTIBIOTICS) (ESCHERICHIA COLI) (GENETICS) (BACTERIA)





EAST GERMANY/CZECHOSLOVAKIA

SMARDA, J., Biological Institute of the Medical Faculty. J.E. Purkyne University. Erno, Czechoslovakia (Original-language version not given).

"An Inhibitor of Colicin G Produced by Proteus Mirabilis"

Eerlin, Zeitschrift fuar Allgemeine Mikrobiologie, Vol 6, No 4, 1966; pp 339-340.

Abstract: A substance is described which occurs in the cell-free filtrate of the culture and inactivates certain colicines in a type-specific manner. Many of the properties of this substance (especially its considerable resistance to heat, in addition to its type-specificity) indicate that it is a type of cell-free colicin receptor, though the possibility that it is a specific protease is not totally excluded. 4 references, 2 of which East German, 1 Belgian and 1 American. (Manuscript received 24 Feb 66).

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S/078/61/006/012/003/011 B110/B147

AUTHORS:

Bol'shakov, K. A., Fedorov, P. I., Smarina, Ye. I.,

Smirnova, I. N.

TIPLE:

Study of the common solubility of magnesium and gollium in

aluminum

rERIODICAL: Znurnal neorganicheskoy khimii, v. 6, no. 12, 1961, 2727-2731

TEXT: The authors studied the ternary system aluminum - magnesium - gallium, and examined the common solubility of magnesium and gallium in aluminum at 290, 240, and 20°C. The alloys were molten from 99.6 and 99.9% Al. 99.91% Mg, and 99.97% Ga with a flux consisting of 46% of MgCl₂, 35% of KCl, 8% of CaCl₂ + NaCl, and 11% of BaCl₂. For 14 days to 3 months, the samples were annealed in evacuated glass ampuls and tempered in water. The common solubility was determined by microstructural analysis (etching agent: 2.5% HNO₃; 2.0% NaOH) and by determination of hardness according to Vicker (diamond pyramid, load: 10 kg). When the equilibrium limit of Card 1/\$\frac{1}{2}\$.

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Study of the common solubility of ...

homogeneity is reached, separations in the second phase increase, whereas the content of incidental impurities in phase transition remains unchanged. Microstructural studies showed the following phase regions : (1) that of the homogeneous aluminum-base solid solution. &; (2) two-phose regions. A+A, ~ = z, d - Mg2da, d + MgGe2, d + Ga; (3) three-phase regions: &+ B+ z; L+ z + Mg2Ga; &+ Mg2Ga + MgGa. The solid aluminum-base solution was found by alkaline etching, the β -phase (slightly yellow) and z-phase (black) were found by weak HNO3 (2.5%), Mg23a and Mg32 phases were found by alkaline etching. Transitions from homogeneous into binary and ternary and from binary into ternary regions were characterized by selient points in the composition - hardness curves. This is in good agreement with data obtained by microstructural analysis. In the region of low ha additions (& 1/2 by weight), the common solubility of Mg and Ga first increases at all temperatures, and then slightly drops again. It increases rapidly when the Al -Ga side is ar roached. There are 8 figures and 10 references: 1 Soviet and 9 non-Soviet. The two references to English-language publications read as follows: M. Hansen. Constitution of binary alloys, 1950, 105; I. Clare. J. Inst. Met.1s, 86, 434 (1958) Card 2/0 ?

Equilibrium in the Mg-rich part...

S/078/62/007/003/010/019 B110/B138

4: 1) were examined, and one passing through the points of the compounds Al 3 Mg and Mg Ga . In sample 1:9, the constitution diagram consists of the primary crystallization lines of the \hat{e} -solid solution on Mg base and primary precipitation of the p-phase with a flat peak at 460°C. The two lines intersect at 67.5% of Mg and 435°C. A wide No-b two-phase range exists in the solid state. A homogeneous zone of the f-phase is believed to exist at 50-57% weight Mg. In ratio 1: 4, the liquidus consists of the precipitation lines of the o-solid solution and the r-phase which intersect at 66.5 wt % Mg and 425°C. The maximum of the phase liquidus curve falls to 454°C. In the c+y+Mg5Ca2 three-phase range (ternary cutectic at 360°C) and + ptwo-phase range sections it was found that in ratio 2 : 3 the prange was remarkably narrow in the solid state. In ratio 3: 2 the liquidus line corresponded to the crystallization of the f-solid solution and the f-phase. In the $d + Mg_5Ga_2$ range, in ratio 4: 1 the liquidum consists of the line of primary precipitation of the solid solution on Mg base, and of the binary Mg_Ga_ compound. The intersection point was at 57.5 wt % Mg and 405°C. The section 1+1+Mg5Ga2 and d+Mg5Ga2 was taken. Since the Al3M64-Mg5Ga2 section Card 2/5

Equilibrium in the Mg-rich part...

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intersects the radical cuts proceeding from the Mg vertex of the triangle (Fig. 2), its examination complements that of the remaining sections. The diagram (Fig. 3,3) is quasibinary (eutectic at 388°C). The microhardness of the six samples was 293 - 307 kg/mm2, and that of the Mg,Ga, phase 242 - 256 kg/mm². The Al₃Mg₄ - Mg₅Ga₂ section in the Mg-Al-Ga system is quasibinary and cuts off the triangle Mg-Al3Mg4-Mg5Ga2 representing an elementary ternary system. The crystallization field of the solid solution on Mg base, lying on the liquidus surface of this system, is adjacent to the crystal ization fields of the y-phase of Al-Mg and of Mg-Ga of Mg-Ga. The lines of the monovariant equilibrium E1E, E2E, E3E correspond to the reactions liq = + r, liq = 0 + Mg5Ga2, liq = r + Mg5Ga2. The point of equilibrium was found at 62 wt % Mg, 26 wt % Ga, 13 weight % Al, and 380°C. Combined solubility, showed a decrease from 9.5 (Al + Ga) at 340°C to 4 wt % at 20°C. K. I. Marinina is thanked for assistance in the experiments. There are 7 figures and 11 references: 1 Soviet and 10 non-Soviet. The three references to English-language publications read as follows: M. Hansen. Constitution of binary alloys, 1958, p. 105. V. Hume-Rothery, G. Raynor. J. Card 3/5

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EWF(q)/EWT(m)/BDS--AFFTC/ASD--JD

ACCESSION NR: AP3001219

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AUTHOR: Bol'shakov, K. A.; Fedorov, P. I.; Smarina, Ye. I.

TITLE: Beta prime phase of aluminum-magnesium system.

SOURCE: Zhurnal neorganicheskoy khimii, v. 8, no. 6, 1963, 1412-1418

TOPIC TAGS: aluminum, magnesium, microhardness, interplanar distances, Ga, In, Tl

ABSTRACT: The section of the Al-Mg diagram between 35-50 wt. \$ Mg was investigated. The Beta prime phase was formed by cooling melts containing 40-43 wt. \$ Mg at about 2.5 degrees per minute; more rapid cooling gave Gamma and Gamma + Beta phases; cooling at 0.5 degrees per minute crystallized the Beta + Gamma phases in a sutectic environment. Microhardness and interplanar distances were measured in poured samples (41-41.5\$ Mg, Beta prime phase) prepared under incomplete annealing. A study of the possibility of stabilizing the Beta prime phase in crystallization from the melt by addition of Ga, In or Tl showed that only Ga stabilized effectively. "In conclusion, we thank Ye. S. Makarov for help and consultation in conducting the X-ray investigations. Orig. art. has: 4 tables and 4 figures.

ASSOCIATION: none

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 $Ps-l_1$ ASD(m)-3/AS(mp)-2ENT(m)/EPR/EMP(q)/EMP(b) L 8834-65 5/0078/64/009/008/1883/1897 ACCESSION NR: AP4043575 AUTHOR: Bol'shakov, K. A.; Fedorov, P. I.; Smarina, Ya. I.; Smirnova I. N. TITLE: The Al-Hg-Ga system Zhurnal neorganicheskoy khimii, v. 9, no. 8, 1964, 1883-1897 SOURCE: TOPIC TAGS: aluminum magnesium gallium system, ternary alloy, alloy phase diagram, alloy phase structure ABSTRACT: Alloys of the Al-Hg-Ga system in the as-cast, quenched, and annealed conditions were investigated by thermal analysis and x-ray diffraction pattern examination. (The compositions of investigated alloys melted from 99.6 or 99.9% pure Al, 99.9% pure Hg, and 99.97% pure Ga were along the sections parallel to the Al-Hg side of the concentration triangle and had a constant Ga content of 5, 10, 15, 20, 25, 30, and 35 wt%. In addition, Al-HgsGa2, HgsGa2-36% Hg, 66% Al sections, and a section with a constant 25 wt% Hg content were investigated. On the basis of the obtained results, phase diagrams of the Al-Mg-Ga system and investigated sections, and the isotherms at Card 1/3

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ACCESSION NR: AP4043575

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300 and 20C were plotted (see Fig. 1 of the Enclosure). In the A1-Mg-Ga phase diagram a ternary intermetallic phase, Z, which forms an extensive region of solid solutions and can be regarded as a berthole interpretation of solid solutions and can be regarded as a berthole lide-type phase, was identified. The structure of the Z phase is lide-type phase, was identified. The structure of the Z phase is highly similar to the structure of the β phase obtained under conditions of incomplete annealing of the Al-Hg system. At the temperature of the liquids' surface, the Al-Hg-Ga diagram is characterized by the of the liquids' surface, the Al-Hg-Ga diagram is characterized by the absence of strictly binary sections and by the presence of quasi-bi-nary sections. In solid condition, however, two-phase regions are clearly distinguishable between adjacent single-phase regions. Originary, has: 13 figures and 1 table.

ASSOCIATION: none

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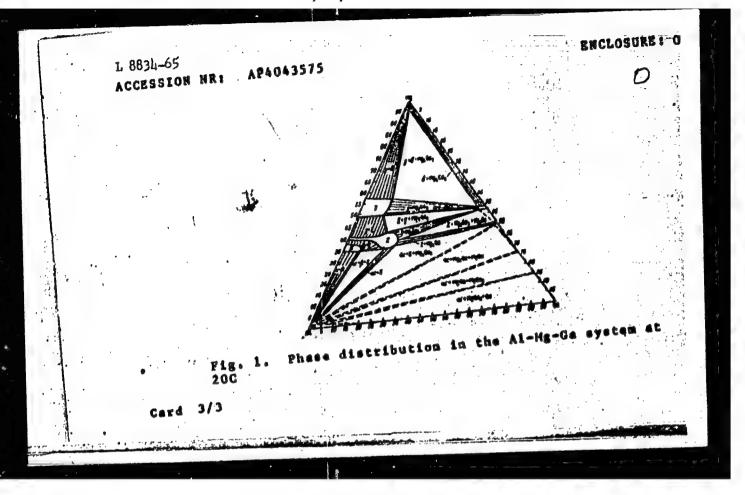
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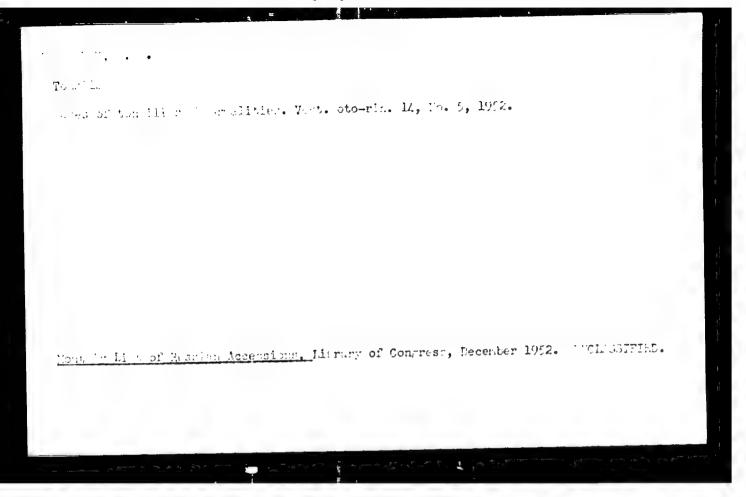
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introduction — 7 Ch. I. Uniform approximation functions — 9 Ch. II. Faber polynomials and series of polynomials — 12 Ch. III. Quadratic approximation. IV. Orthogonals with respect to the No. Problems of the most to Bibliography — 425 Indexes — 434	problems of presenting a 1 27 tion. Orthogonals in the format to Continuous contour	regular function by unction field — 19 279	6	
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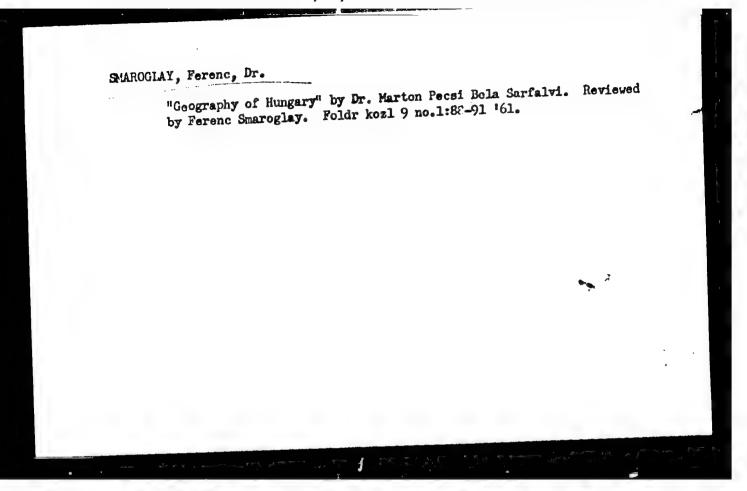
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1. Foverosi Pedagogiai Szeminarium tanszekvezeto tamara, Budapest (for Smaroglay).

KAZAR, Leona; SMAROGLAY, Ferenc, dr.; TOTH, Aurel, dr., kozepiskolai tanar

Report on the work of the Division of the Methodology of Teaching. Foldr kozl 10 no.3:301-302 162.

1. Magyar Foldrajzi Tarsasag Oktatasmodszertani Szakosztalyanak elnoke; Kozponti Pedagogus Tovabbkepzo Intezet tanszekvezeto tanara; "Foldrajzi Kozlemenyek" szerkeszto bizottsagi tagja (for Kazar). 2. Vezeto szakfelugyelo; Magyar Foldrajzi Tarsasag Oktatasmodszertani Szakosztalyanak tarselnoke (for Smaroglay). 3. Szakfelugyelo; Magyar Foldrajzi Tarsasag Oktatasmodszertani Szakosztalyanak titkara (for Toth).

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1. (Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu;
Kterownik: prof. dr. med. St. Kwasniewski) adres: Poznan,
1 K1. Chor. Wewn A.M., ul. Dluga 1/2.

(LIVER FUNCTION TESTS,
phenolphthalein clearance test 'Pol))

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SZERESZEWSKA, Halina; JASINSKI, Kazimierz; SMARSZ, Czeslaw

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B. Krysiewicza w Poznaniu Dyrektor Szpitale: dr med. M. Stabrowski.

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Prof. dr. med. S. Kwasniewski I Klin. Chor. Wewn. A. m. W Poznaniu.
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(LIPOPROTEINS, in blood
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MAZUROWA, Aleksandra; CHODERA, Leon; SMARSZ, Czesław

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hypoglyceric states and its effects on electrocardiographic
curve. Polskie arch. med. wew. 26 no.9:1349-1364 1956.

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prof. dr. ned. S. Kwasniewski, Adres autora: Poznan, ul. Dluga
1/2.

(ELECTROLYTES, in blood,
in byperinsulinism, eff. on ECG (Pol))
(HYPERINSULINISM, blood in,
electrolytes, eff. on ECG (Pol))
(ELECTROCARDIOGRAPHI),
eff. of blood electrolytes in byperinsulinism (Pol))

E / 17 / 1 : 7 / CHODERA, Leon; MAZUROWA, Aleksandra; SMARSZ, Czeslaw

Studies on correlation between metabolic changes manifested by electrolytes and carbohydrates and electrocardiographic changes following adrenal in therapy. Polskie arch. med. wewn. 27 no.10: 1319-1333 1957.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu Kierownik: prof. dr med. S. Kwasniewski. Adres autora: Poznan, ul. Dluga 1/2 I. Klin. Chor. Wewn. A.M.

(EPINEPHRINE, effects,

on blood sugar, potassium & on BCG (Pol))

(BLOOD SUCAR, effect of drugs on,

epinephrine, relation to blood potassium & BCG (Pol))

(POTASSIUN, in blood,

eff. of epinephrine, relation to blood sugar & MCG (Pol))

(ELECTROCARDIOGRAPHY.

eff. of epinephrine, relation to blood sugar & potassium (Pol))

RASZEJA-WANIC, Bozena; JASINSKI, Kazimierw; SMARSZ, Czeslaw

Clinical value of the determination of the thiosulfate space in disorders of water & mineral metabolism. Polskie arch. med. wewn. 28 no.41504-505 1958.

1. Z I Kliniki Chorob Wewnetrsnych A.M. w Posnaniu Kierowniki prof.

dr med. S. Kwasniewski. (BODY FLUID BALANCE,

disord., clin. value of determ. of extracellular thiosulfate

space (Pol))

extracellular thiosulfate. space, clin. value of determ. in water-electrolyte disord. (Pol)) (THIOSULFATES, metab.

MAZUROWA, Aleksandra; CHODERA, Leon; SMARSZ, Czeslaw

Effects of shifting of blood serum electrolytes on ECO curve during hypoglycemia and after adrenalin administration. Polskie arch. med. wewn. 28 no.4:541-543 1958.

1. Z I Kliniki Chorob Wewnetranych A.M. w Poznaniu. Kierownik: prof. dr med. S. Kwasniewski.

(HYPOGLYCEMIA, eff. on blood electrolytes & ECG (Pol))

(EPINEPHRINE, off.

on ECG in relation to blood electrolytes (Pol))

(KINCTROCARDIOGRAPHY,

eff. of hypoglycemia & epinephrine admin. in relation to blood electrolytes (Pol))

(ELECTROLYTES, in blood

eff. of hypoglycemia & epinephrine admin. in relation to BCG (Pol))

CIA-RDP86-00513R001651420010-1" APPROVED FOR RELEASE: 08/25/2000

CHODERA, Leon; MAZUROWA, Aleksandra; SMARSZ, Czeslaw

On the investigations on the ralationships between metabolic, electrolytic and carbohydrate exchange and electrocardiographic changes in the so-called energy-dynamic cardiac insufficiency. III. Hypoglycemic states interrupted by adrenalin. Polskie arch.med.wewn. 29 no.5:581-587 159.

1. Z I Kliniki Chorob Wewnetrznych A. M. w Poznaniu Kierownik:
prof. dr med. S. Kwasniewski.
(KLECTROCARDIOGRAPHY pharmacol)
(HYPERINSULIHISM)
(EPINEPHRIME pharmacol)
(WATER KLECTROLYTE BAIANCE)

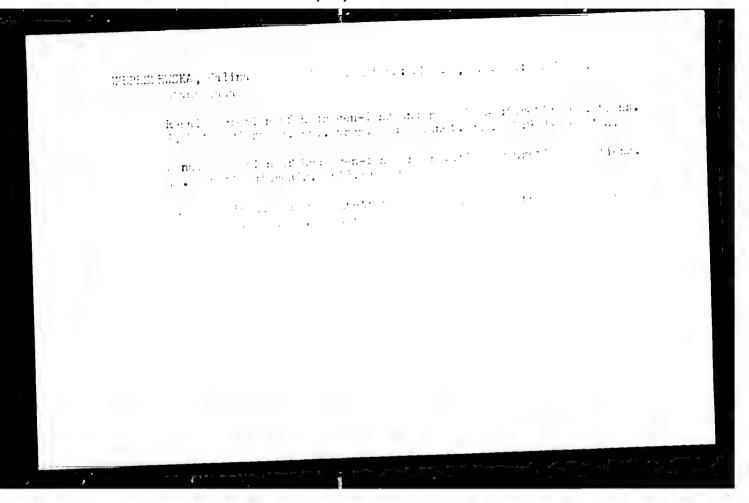
JASINSKI, Kazimierz; RASZEJA-WANIC, Bozena; KUBACKI, Andrzej; SMARSZ, Czesław

Effect of prolonged application of massive doses of cortisone on the osseous system and certain biochemical and histological changes in rabbits. Polskie arch.med.wewn. 30 no.6:839-841 '60.

1. Z I Kliniki Chorob Wewnetrznych A.M. w Poznaniu Kierownik: prof. dr med. S.Kwasniewski.

(CORTISONE pharmacol)

(BONE AND BONES pharmacol)



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Approximate computation of concentration coefficients of continuous compensated systems. Akust. shur. 9 no.2:246-247 (MIRA 16:4)

163. (Sound)

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L 9949-65 EWT(1)/EEC-4/EEC(t)/EEC(b)-2/FCS(k) Pac-4/Pac-2/P1-4/P3-4/P1-4
SSD/AFETR/RAEM(a)/AFWL/ASD(a)-5/BSD/AFTC(b)/ESD(gs)/ESD(t)/RAEM(t)
ACCESSION NR: AP4045494 S/0109/64/009/009/1694/1696

AUTHOR: Smary+shev, M. D.

TITLE: Maximization of the directive gain of an antenna array 2

SOURCE: Radiotekhnika i elektronika, v. 9, no. 9, 1964, 1694-1696

TOPIC TAGS: antenna, antenna array, directive gain

ABSTRACT: As G. Gilbert and S. Morgan do not indicate in their article (Bell System Techn. J., 1955, 34, 3, 637) a permissible value of antenna sensitivity to random errors, their treatment of the problem does not provide a method for its rigorous solution. Hence, the author develops a new method of exciting the antenna which ensures a maximum mathematical expectation of the directive gain, with randomly applied excitation errors having a specified value. A formula for the mathematical expectation as an explicit function of excitation coefficients is developed, as well as a set of linear algebraic equations whose

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solution produces the excitation co	pefficients ensuring the m	ax directive gain.	
ASSOCIATION: none			
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Pac-4/P1-4/F5-4/P1-4/Peb EWT(1)/EEC-4/EEC(t)/EEC(b)-2/FCS(k) L 31073-65 5/0046/65/011/001/0124/0125 ACCESSION NR: AP5006184

Smaryshev, M. D. (Leningrad) AUTHOR:

TITLE: The array factor of a continuous and transparent acoustical volume antenna

SOURCE: Akusticheskiy zhurnal, v. 11, no. 1, 1965, 124-125

TOPIC TAGS: acoustic antenna, antenna theory, antenna model 25B

ABSTRACT: The author analyzes a hypothetical acoustical antenna array whose elements are confined to a space within the right circular cylinder. The aim of the analysis is to determine efficiency of the antenna as a function of the space it occupies. The antenna elements are considered to be similar and distributed symmetrically and evenly, with the distance between adjacent elements less than half. the wavelength, i.e., the antenna can be considered continuous. The elements would be excited with phase differences producing constructive interference along the cylinder axis. The analysis consists in determining the optimal ratio of cylinder height to cylinder diameter and the ratio of both to the wavelength. The formulas used for this purpose show that the array factor is proportional to the height-diameter ratio and diminishes with increasing diameter and wavelength roughly according to a square law, the dependence being steeper at low values of the diameter-wavelength

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ACCESSION NR: AP5006184

ratio. For instance, at a diameter-wavelength ratio of 0.5 and a height-wavelength ratio of 10, the concentration coefficient is 9 times larger than for a flat cylinder of the same cross section. The differences, however, are less with larger cross sections, since at a zero height-diameter ratio the concentration coefficient decreases only to its limit value of 0.5. The concentration coefficient, on the other hand, is also determined by the width of the directionality characteristic of the antenna at its first zero level. Since the directionality characteristic of the antenna under consideration depends on two directionality characteristics (that of a flat ring and that of the generatrix), its width will coincide with the steeper of the two. Here again, the characteristic in general grows steeper with a decreasing height-diameter ratio. The analysis explains the low concentration values of large cross sections of the acoustic antenna arrays. Orig, art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 04Sep63

ENCL: 00

SUB CODE: GP, EC

NO REF SOV: 000

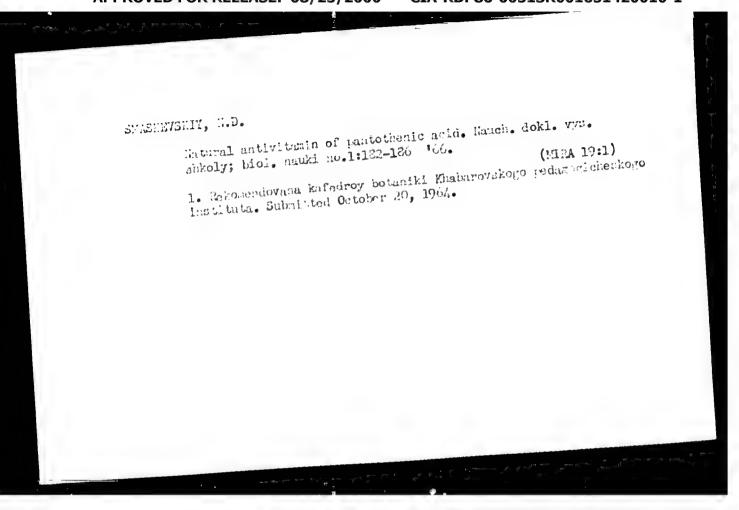
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"Onygen Absorption Under Hypothermia Conditions," a paper from the book
Theses of the Reports of the Selentific Session of the Military Badical Jeademy
im. J. M. Kirov, Textsy Dobladov Hauchroy Bessi, 20 Oct-2 Nov 1956, Leningrad.

SALEK, Jan; REHAK, Frantinek; SMAT, Vaclav

Long-term investigations on surgical therapy of bronchogenic carcinoma. Sborn. lek. 61 no.4:107-115 Apr 59.

1. II. chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta akademik J. Divis. As. dr. J.S., II. chirurgicka klinika, U nemocnice 2, Praha 2.

(HING MEOPIASMS, surgery, bronchogenic cancer, remote results (Cz))

LHOTKA, J.; CHMEL, K.; FRIEDBERGER, V.; SMAT, V.; BOREK, Z.

Traumatic perforation of the esophagus. Rozhl.chir. 40 no.2-3: 147-149 Mr '61.

1. II.chirurgicka klinika WL, prednosta doc.dr. J. Lhotka. (ESOPHAGUS wds & inj)

SMAT, Vaclav

An unusually tortuous thoracic aorta. Rozhl. chir. 40 no.7:496-498 Jl '61.

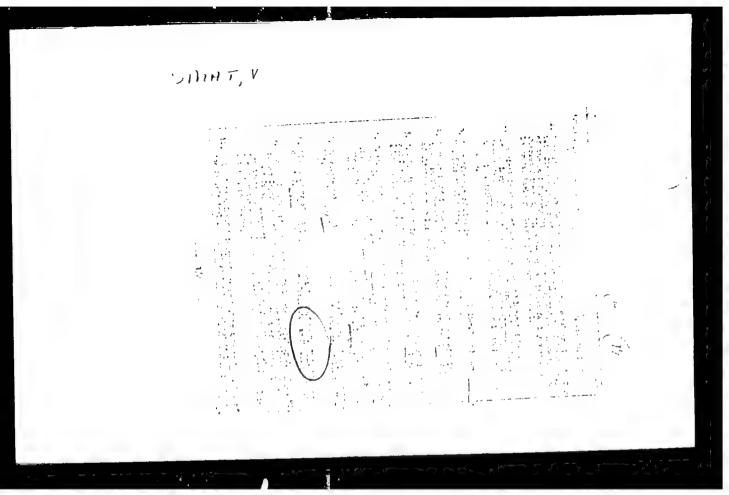
1. II chirurgicka klinika KU v Praze, prednosta doc. dr. J. Lhotlm.

(AORTA abnorm)

SMAT, V.; POSPISIL, M.; VINCENCOVA, B.

Some indications for surgical treatment of inflammations of the gall-bladder. Cesk. gastroent. vyz. 15 no.8:607-611 D '62.

1. II. chirurgicka klinika v Praze, prednosta prof. dr J. Lhotka. (CHOLECYSTECTOMY)



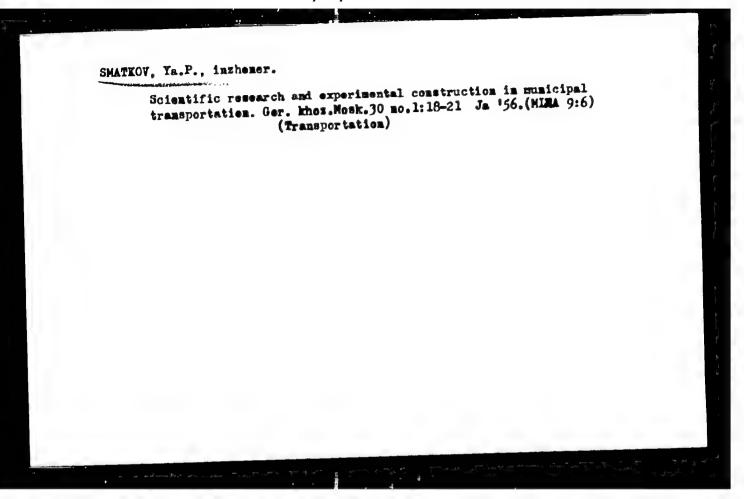
MOTLIK, K.; JANOUSKOVA, M.; HRADEC, E.; SMAT, V.

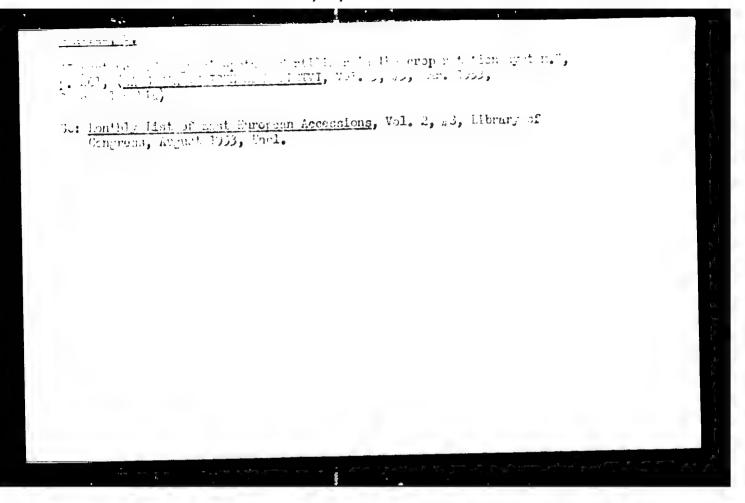
Some macroscopic indices on the distribution of medulla in human adrenal glands (morphological contribution to the problem of so-called medullectomy). Rozh. chir. 43 no.4:233-242 Ap '64.

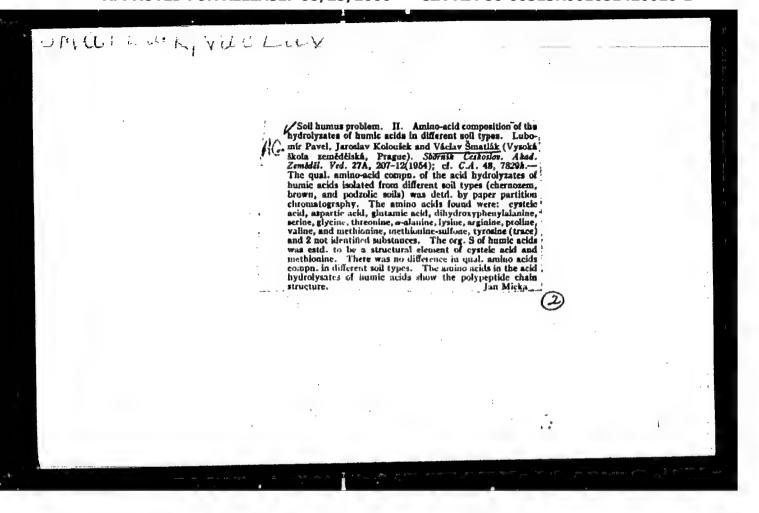
l. II. patologickoanatomicky ustav (prenosta prof. dr. V. Jedlicka) a II. chirur, icka klinika (prednosta prof. dr. J. Lhotka) fakulty vseobecneho lekarstvi KU [Karlova Universita] v Praze.

SMATANA, Anton, inz.

Modern methods of traction vehicle servicing at the locomotive depots of the Czechoslovak Railways. Zel dop tech 11 no.3:80-81 163.







SMATOV, 7h.

Species of bloodsucking midges (Culicoides) in the Ili River basin. Trudy Inst. zool. AN Kazakh. SSR 22:205-207 *rd. (MIRA 17:12)

L 44805-66 ACC NR. AP6006152 (A) SOURCE CODE: CZ/0078/65/000/010/0011/0011	
INVENTOR: Soucek, Jiri (Engineer; Benesov u Prahy); Hampl, K. (Vlasim); Saaus, F. (Benesov u Prahy); Skvor, J. (Engineer; Uvaly); Bezouska, V. (Pruhonice); Hadlicka, J. (Prague); Pokorny, O, (Prague); Zavazal, Z. (Prague); Smetans, J. (Prague)	
ORG: none TITLE: [Thermal expansion compensator for semiconductor system] CZ Pat. No. PV 1827-64	
SOURCE: Vynalezy, no. 10, 1965, 11	
ABSTRACT: The electrode of the housing of a semiconductor system which is vacuum (hermetically) tight secured by means of the electrical insulating part to the base (hermetically) tight secured by means of the electrical insulating part to the base (housing forming the other electrode which has positioned inside it a channel or duct housing forming the other electrode which has positioned inside the housing a positioned expansion member constituting an electrical connection between the electrode and the semision member constituting an electrical connection between the electrodes protrude from conductor system feature in the device described here. The electrodes protrude the housing in such a way that to the expansion member fixed to it can be secured deformation electrodes from the outside and that a conductor can be attached to them	_
Cord 1/2	

TOPEKHA, Petr Favlovich; KOVYZHENKO, V.V., otv. red.; SMAVZYUK, O.L., red.

[Problems of the unity of the trade-union movement in modern professiveness dviehenia v sovremen-

[Problems of the unity of the trade-union movement in modern Japan] Voprosy edinstva profsoiuznogo dvisheniia v sovremennoi IAponii. Moskva, Izd-vo "Nauka," 1964. 162 p. (MIRA 17:4)

SMAYEURKY V.YE.

USSR/ Physics - Luminescence

Card 1/1 Pub. 43 - 31/62

Authors Klimovskaya, K. L.; Vishnevskiy, V. N.; and Smayevskiy, V. Ye.

Title (About the luminescence of hydrazide of triaminophthalic acid

Periodical : Izv. AN SSSR. Ser. fiz. 18/6, 694-695, Nov-Dec 1954

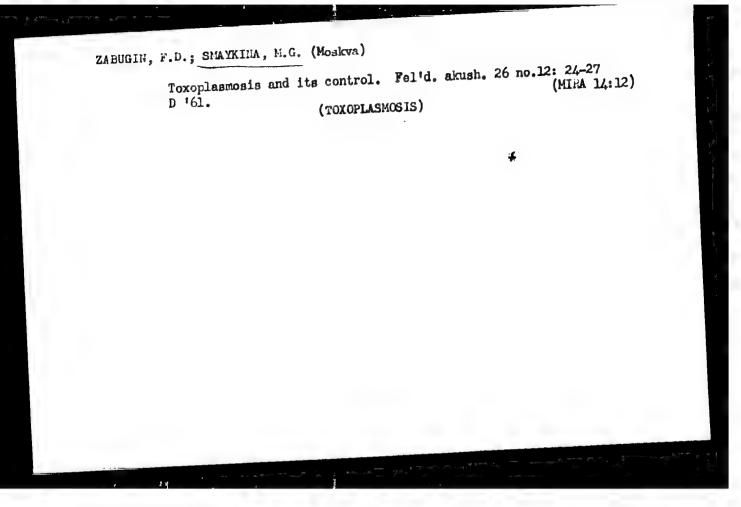
Abstract

The changes in chemoluminescence intensity were investigated during the oxidation of yellow and white triaminophthalic hydrazide with hydrogen peroxide and potassium ferricyanide in an alkaline medium. The effect of hydrocoxide and potassium ferricyanide in an alkaline medium. The effect of hydrocoxide concentrations in the medium of the luminescence intensity is explained. The phenomena observed during the luminescence of the white and yellow hydrazines are described.

Institution: The Iv. Franko State University, L'vov

Submitted :

Two cases of toxoplasmosis. Zhur. nevr. i psikh. 60 no.3:312-314 (MIRA 14:5)
160. (TOXOPLASMOSIS)



SMAYKINA, M.G.

X-ray diagnosis of chronic forms of acquired toxoplasmosis. Trudy TSIU 80:142-144 165.

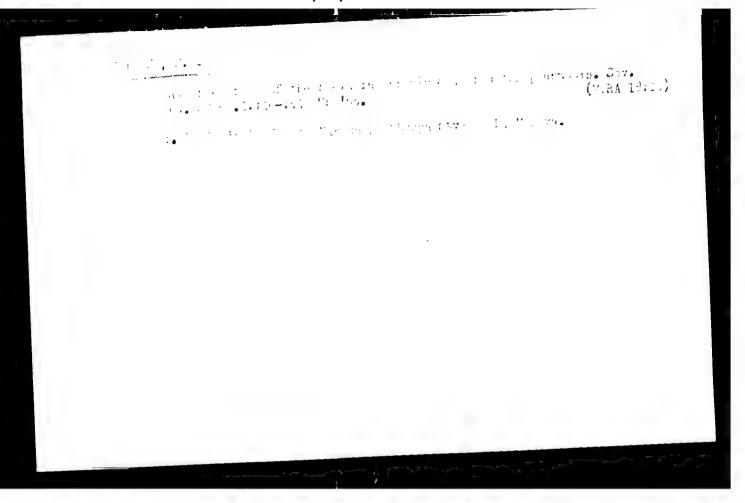
Methodology of X-ray examination of the skull in patients with acquired toxoplasmosis. Ibid.:145-147 (MIRA 18:11)

ZABUGIN, F.D.; SMAYKINA, M.G.

Clinical aspects of acquired toxoplasmosis (chaonic form).

Zhur. nevr. i psikh. 62 no.3:413-416 '62. (MIRA 15:3)

1. Poliklinika Gosplana SSSR, Moskva.
(TOXOPIASMOSIS)



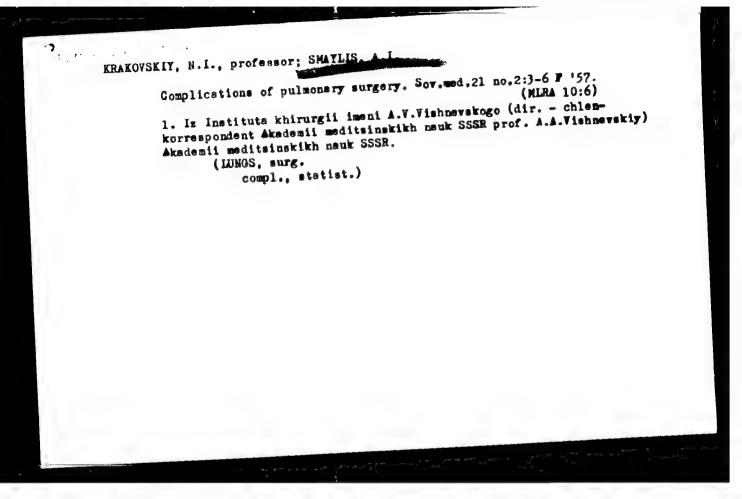
SMAYLIS, A. I., Cand Med Sci -- (diss) "Complications in Lung Operations (According to Data of the Inst of Surgery Acad Med Sci USSR)." Mos, 1957. 12 pp; 1 sheet of tables (Min of Health USSR, Central Inst for the Advanced Training of Physicians), 200 copies (KL, 48-57, 110)

- 74 -

SMAYLIS, A.I.; TSUKERMAN, B.M.

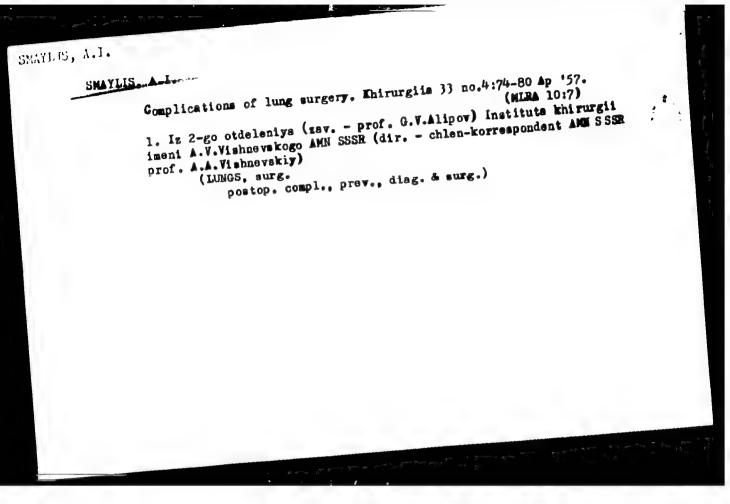
Diagnosis and therapy of pulmonary artery embolism. [with summary in English] Exsp. khir. 2 no.1:42-48 Ja-F 57 (MIRA 10:4)

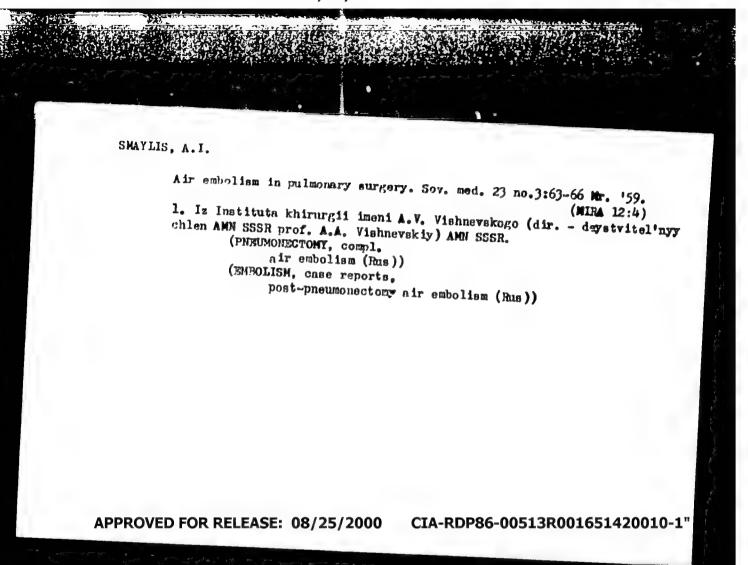
1. Iz Instituta khirurgii imeni A.V. Vishnevskogo (dir.-chlenkorrespondent AMN SSSR prof. A.A. Vishnevskiy) AMN SSSR. (PULMONARY EMBOLISM AND THROMBOSIS, exper. dieg. & surg. in dogs) (Rus)



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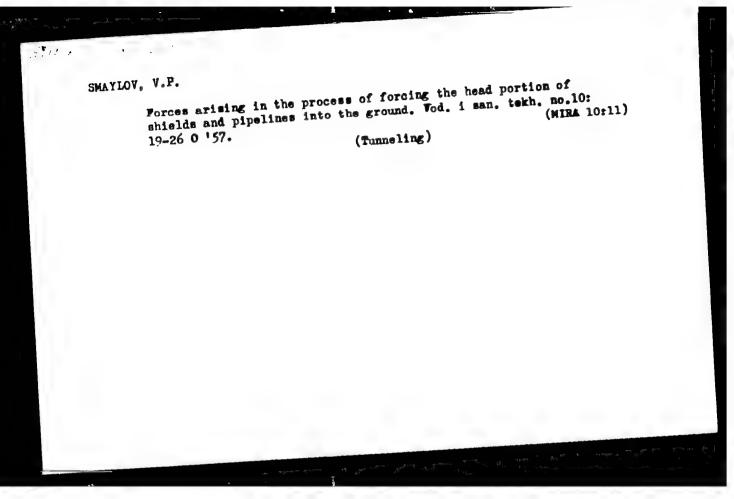
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AFANAS YEV, I.B.; OVAKIMYAN, G.B.; YEREMINA, T.N.; VORONINA, I.B.; SMAYL'S, L.K.; BEER, A.A.

Synthesis of diamines, dicarboxylic acids, and chloro-substated monocarboxylic acids based on telomers of chloro-bromomethane with ethylene. Khim.prom. no.10:709-712 (MIRA 15:12)

(Amines)
(Acids, Organic)
(Polymers)

GILTHE, I.M.; SWALTS, S.S.

Study of the electric consitivity of eyes in school-age children on the southern coast of the Crimes. Uch. sap. HRI no.160:223-226 *60.

SMAYSHKINA, K.G.

New species of Foraminifers in lower Cretaceous sediments of Daghestan. Trudy Geol.inst.Dag.fil. AN SSSR 1:82-91 '57.

(Daghestan--Foraminifera, Fossil)

(Daghestan--Foraminifera, Fossil)

SMAZAK, 3.

"Using Highly Developed Agrotechnics in Plant Breeding." p. 160, Bratislava, Vol. 6, 1951.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

ACC NR: AP6021789

Decrease Contract - Un/0/13/66/000/012/0052/0052

INVENTORS: Smazhovskaya, Ye. G.; Rivkin, V. I.; Podol'nor, N. A.

ORG: none

TITLE: A coramic material. Class 21, No. 182779

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 52

TOPIC TAGE: coramic material, coramic technology, coramic product property, piezoelectric ceramic, piezoelectric effect, piezoelectric property, potassium compound

ABSTRACT: This Author Cortificate presents a ceramic material for producing piezoelectric elements and containing PoO, Bi₂O₃, and TiO₂. To increase the interval of
working temperatures for the piezoelectric elements, aside from the above components,
K₂O is introduced into this material. K₂O is added in the following molar proportion
to the other ingredients:

PbO: Bi_2O_3 : K_2O : TiO_2 = (1 - X): $\frac{X}{4}$: $\frac{X}{4}$: 1 at X = 0.3 -- 0.6.

SUB CODE: 11,20/ SUBM DATE: 18Jun64

Card 1/1

UDC: 621.315.61:537.226.33

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D. I. Sendelover, occord, 1955
(Disservation for the Degree of Candidate of Scoundard Joiences)

St: <u>Entainpowe Letonia</u>, No. 6 Aug 55

.24(3) AUTHORS:

Rez. I. J. Smazhevskaya, Ye. G., Kachkacheva, M. M. 307/48-21-12-28/33

TITLE

On the Problem of Piezcelectric Ceramics Production for High-Temperature Operations (K voprosu o poluchenii piyezokeramiki dlya raboty pri povyshennykh temperaturakh)

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1958, Vol 22: Nr 12, pp 1520-1525 (USSR)

ABSTRACT:

PERIODICAL:

In the present paper the following compounds were obtained and their properties investigated, solid solutions of (Ba,Ca)TiO₃, (Ba,Pb)TiO₃, (Ba,Ca,Pb)TiO₃, Pt(Ti,Zr)O₃, lead niobate and solid solutions on the basis of the latter. Since in publications there are no details on PbNb₂O₆, a piezoelectric with the highest Curie (Kyuri) temperature (570°) and its formation conditions, this reaction was subjected to a complex thermographic investigation in the GIEKI at Kh. S. Valeyev's laboratory. G. A. Smolenskiy and V. A. Isupov offered suggestions as to the selection of compositions for producing piezoelectric peramics on the basis of PbNb₂O₆. The principal experimental results are given in the

Card 1/5

On the Problem of Piezoelectric Ceranics Production for SOV/48-22-12-28/33 High-Temperature Operations

table. The analysis of the data obtained reveals that solid nolutions on the basis of PbNb206 are the most appropriate compositions for electromechanical high-temperature transformers. Solid PhErOz-PhTiO, -solutions come next to them; however, considerable technical complications are involved in the production. Solid (Ba,Ca)TiO, and (Ba,Ca,Ph)TiO, solutions can be used in a subpolarization up to 120-130°. Solid (Ba,Pt)TiO, solutions probably will not be suitable, unless the homogeneity of the material can be intreased. Furthermore the low decleatric stability of these ceramics at polarization temperatures must be increased by means of a corresponding modification of the composition, i.e., by reduction of the conflictivity loss that complicates the piezoelectric excitation of electromechanical transformers of this material. The authors express their gratitude to 1. 2. Rusakov for valuable advice and to the cooperators of the TaNILP L. B. Germayze, A. P. Yermakova, 3. V. Konstantinov, N. A. Podeliner, V. A. Rovitskiy and A. A. Filimonov for helpful assistance.

Card 2/3

Council of The Commission President Of 155K.

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S/048/60/024/010/033/033 B013/B063

9,6180

AUTHORS:

Kachkacheva, M. M., Dryabchuk, A. A., Rusakov, L. Z.,

Smazhevskaya, Ye. G.

21

TITLE:

High-temperature Piezoelectric Acceleration Transmitters

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 10, pp. 1304-1306

TEXT: This article gives a description of a new acceleration transmitter. The sensitive element was made of the piezoceramic material $(Pb_{0.6}Ba_{0.4})Nb_{2}O_6$. A general view of the transmitter is shown in Fig. 1, its design is given in Fig. 2. Due to its compact design the transmitter stands an overload of up to 300 g. It weighs about 50 g, and has a sensitivity of 10 mv/g. The sensitivity for the transverse vibration component is 5 - 6% lower than the axial sensitivity. The frequency characteristics and the temperature dependence of sensitivity are illustrated in Fig. 3 and Fig. 4, respectively. Data for piezoelectric

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Card 1/2

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9,2180(3203,1162) 24,7500 (1043,1160) S/048/60/024/011/024/036 B006/B060

AUTHORS:

Smazhevskaya, Ye. G. and Podoliner, N. A.

TITLE:

Some Results of a Study of the PbO - Nb O - Nd O System

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1960,

Vol. 24, No. 11, pp. 1394-1397

TEXT: This is the reproduction of a lecture delivered at the Third Conference on Ferroelectricity which took place in Moscow from January 25 to 30, 1960. The authors studied systems consisting of lead metaniobate and various metal oxides (oxides of Al. Zr. Ti. La. Sm. W, Ge, Er. Y, Dy, and Nd) at concentrations between 0.5 and 1 mole with a view to stabilizing the seignettoelectric phase and to reducing the "seignettoelectric hardness" of PbNb206 (at the highest possible Curie temperature). Preliminary experiments showed that specimens with neodymium admixture exhibited a considerable piezoelectric effect, and these specimens were therefore examined most thoroughly. Specimens with 0.5, 1, 3, 4, 5, 7, and 10 mole Nd203 were prepared and the

Card 1/3